Quick Connect Guide: SSP3000 System Wiring Connections

For details, see the "SmartSiren Platinum Series Installation, Maintenance, and Service Manual" (P/N 2562502) and the "SSP3000 Configuration Software Manual" (P/N 2562418).

2562417B REV. B 613

Back of SSP3000 Siren Amplifier / Relay Module

SERIAL PORTS: Connect up to two Federal Signal serially-controlled devices.

FS CONVERGENCE™ NETWORK CONNECTIONS (to serially-controlled devices)

8-INCH RS-485 CABLE (P/N 1751357-06): Use this cable to link the upper and lower serial ports.

For these two connectors (P/N 1751541 and P/N 1751542) see the enlarged detail on the right.

BATTERY GROUND (–GND) 14 AWG

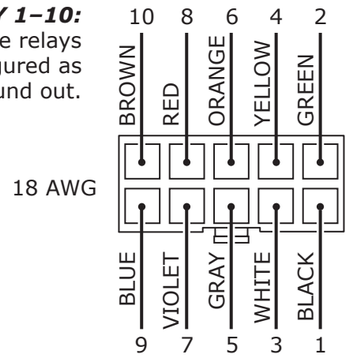
12 Vdc POWER (+BAT) 14 AWG

FUSE: Based on load.

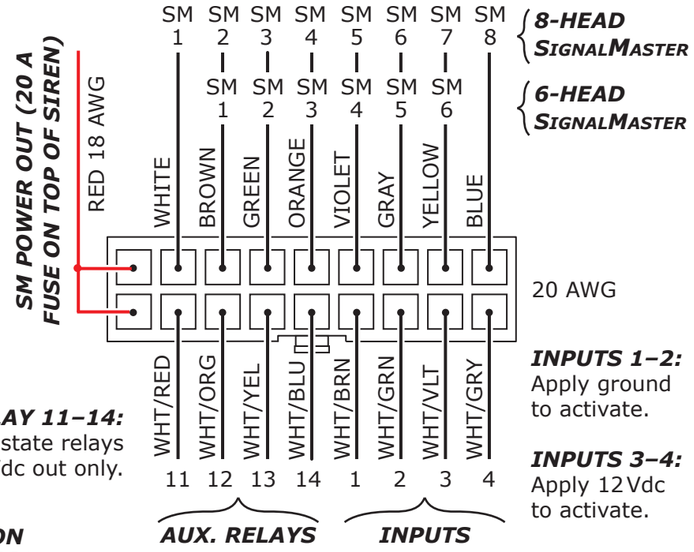
AUX. RELAY 1–10: 10 A solid-state relays can be configured as 12 Vdc out or ground out.

AUX. RELAY 11–14: 3 A solid-state relays are 12 Vdc out only.

RELAY CABLE ASSY. (P/N 1751541)



SIGNALMASTER™, RELAY & INPUTS CABLE ASSY. (P/N 1751542)

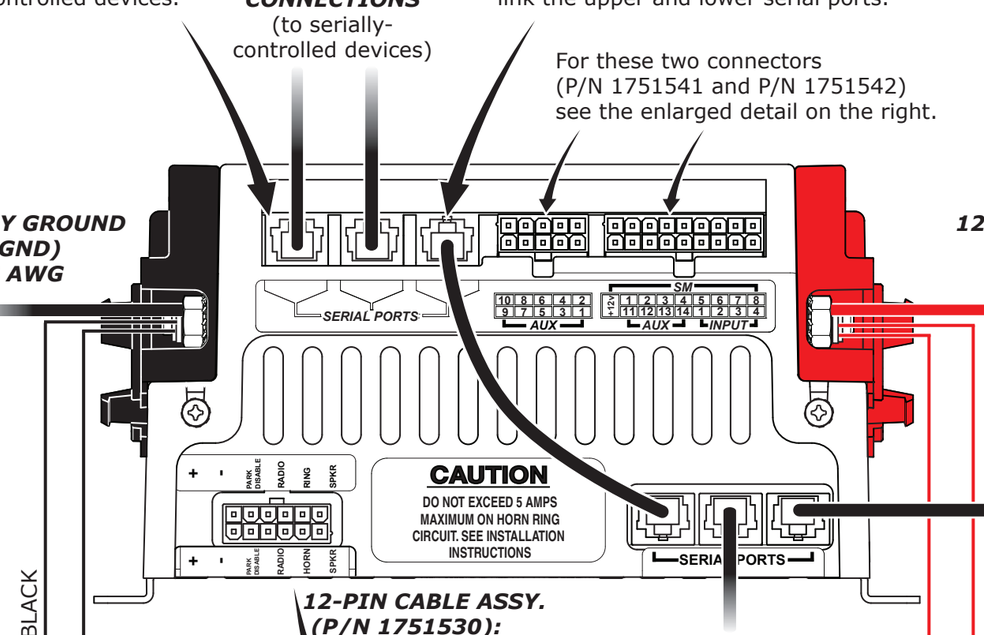


INPUTS 1–2: Apply ground to activate.

INPUTS 3–4: Apply 12 Vdc to activate.

FS CONVERGENCE NETWORK CONNECTION CABLE, 25 FEET LONG (P/N 1751357-02)
(Cable must connect to a lower serial port.)

MICROPHONE (P/N 258B577-03)



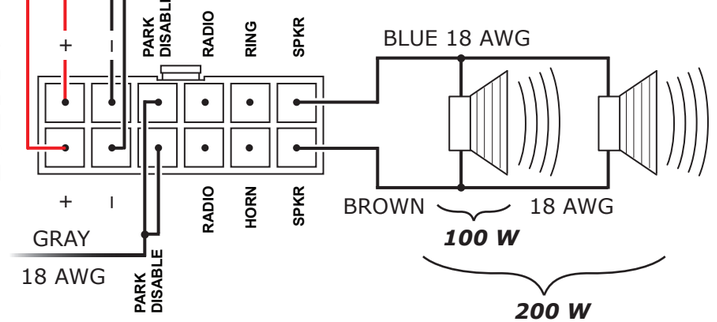
12-PIN CABLE ASSY. (P/N 1751530): See connector detail below.

BLACK
BLACK
RED
RED
RED
18 AWG
18 AWG

HORN RING: Enables the step-through selection of siren tones each time the horn ring is pressed while the control of the tone is transferred.

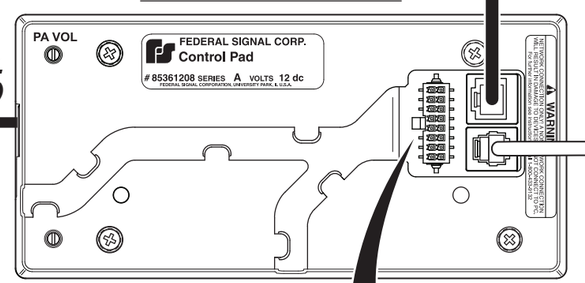
PARK DISABLE: Sends a signal to the siren amplifier to mute all siren tones, except Air Horn and Manual, when the vehicle transmission is shifted into park or neutral.

RADIO: Rebroadcasts incoming radio messages through the siren speakers.



SPEAKERS: Two are connected in parallel and in phase.

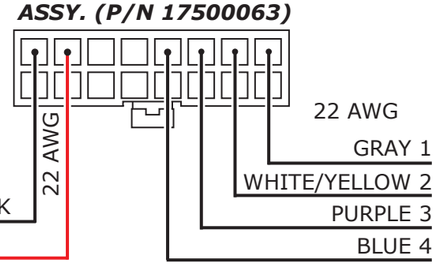
Back of Control Pad



ETHERNET CABLE ASSY. (P/N 1751532)

Computer for the software configuration of the SSP3000 system.

CONTROL PAD CABLE ASSY. (P/N 17500063)



BATTERY GROUND (–GND)

12 Vdc SWITCHED BY IGNITION

ACTIVE-LOW INPUTS: Ground-activated. Can be programmed to activate with the control pad, installer-supplied switches (current capacity of 100 mA each), or with the two-position switches on the steering wheel of the Ford Police Interceptor.

Quick Connect Guide: SSP3000 System LED Indicators, Fuses, and Volume Controls

Front of SSP3000 Siren Amplifier / Relay Module

AUX 11–14: LED flashes when the output is on for a 3A auxiliary solid-state relay. These relays are active-high only.

SM 20A: 20A fuse for the SignalMaster.

3A AUX 11–14: 3A fuses for 3A auxiliary solid-state relays. Relays are 12Vdc out only.

10A AUX 1–10: 10A fuses for 10A auxiliary solid-state relays. Relays can be configured as 12Vdc out or ground out.

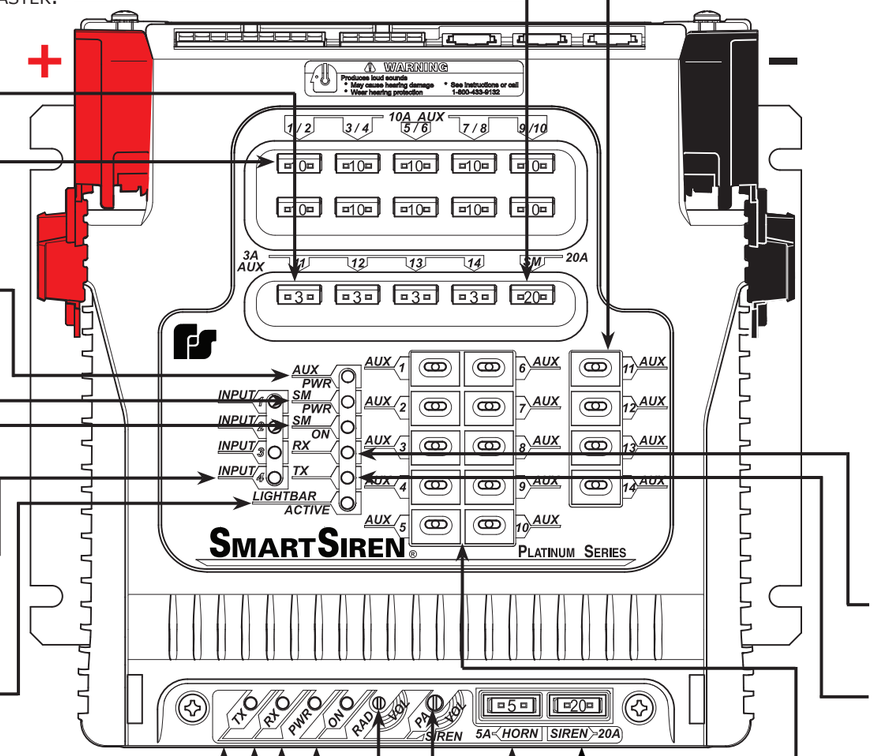
AUX PWR: LED glows when battery power and serial cable power are present.

SM PWR: LED glows when the SignalMaster has power.

SM ON: LED glows when the SignalMaster flashes a pattern.

INPUT 1–4: LEDs glow when an input is receiving a signal. Voltage and amperage are required for the signal.

LIGHTBAR ACTIVE: LED glows when the lightbar is flashing.



TX (Transmit): LED flashes when the siren amplifier transmits a message on the FS Convergence network.

RX (Receive): LED flashes when the siren amplifier receives a message on the FS Convergence network.

PWR: LED glows when the siren amplifier has power.

ON: LED glows when the network has power.

RX (Receive): LED flashes when the relay module receives a message on the FS Convergence network.

TX (Transmit): LED flashes when the relay module transmits a message on the FS Convergence network.

AUX 1–10: LED flashes when the output is on for an 10A auxiliary solid-state relay. Relays can be configured as 12Vdc out or ground out.

SIREN 20A: 20A fuse for the siren.

5A HORN: 5A fuse for horn-ring circuit.

PA VOL: Screw for adjusting the factory-set PA volume. First adjust the volume here, then adjust the volume on the back of the control pad, if needed.

RAD VOL: Screw for adjusting the factory-set radio rebroadcast volume. First adjust the volume here, then adjust the volume on the back of the control pad, if needed.

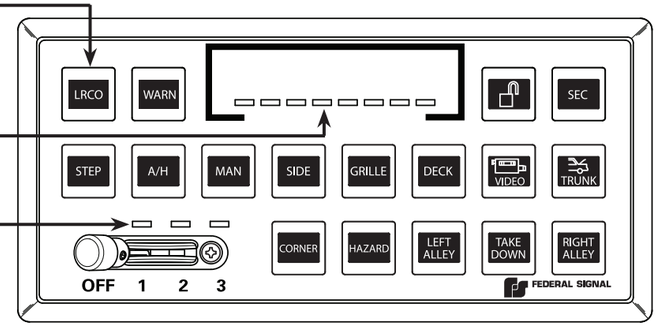
Front of Control Pad

Button LEDs: All buttons on the control pad glow red when the system is on. Pressed buttons blink to indicate that the function they control is active.

Amber LEDs: LEDs mimic these active SignalMaster patterns: Left, Right, Center-Out, or Warn patterns 1–4.

SLIDE SWITCH LEDs: LEDs above the slide switch glow when the system is on (**1**=green, **2**=amber, **3**=red). The LED brightens above the position in which the slide switch is placed.

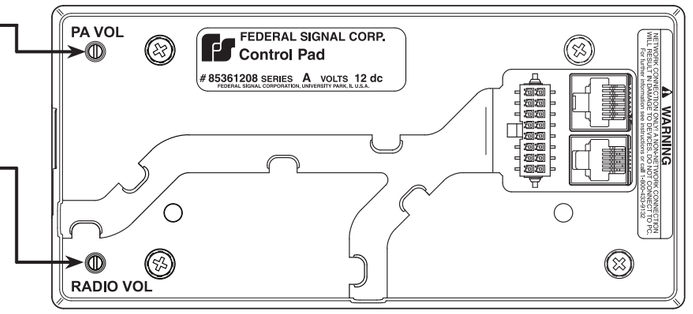
KEYPAD: The keypad legends in the illustration are for a typical configuration. The SSP3000 kit includes additional legends. All buttons are programmable.



Back of Control Pad

PA VOL: Screw for adjusting the factory-set public address volume. First adjust the volume on the front of the siren amplifier/relay module, then adjust the volume here, if needed.

RADIO VOL: Screw for adjusting the factory-set radio rebroadcast volume. First adjust the volume on the front of the siren amplifier/relay module then adjust the volume here, if needed.



External Fuses at a Glance

Each external mini ATM fuse has an integrated LED that glows when the fuse is blown. The table identifies the color code and amperage.

Color	Amp.
Violet	3
Tan	5
Red	10
Yellow	20

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